ATTORNEY DOCKET NO. 47259-5001-00 US

## IN THE UNITED STATES PATENT AND TRADEMARK OFF £61/573821

Application N (Nation Filed: Filed: March	onal Stage of PCT/JP2004/014704 September 29, 2004) n 28, 2006 PEPTIDE CLEAVAGE METHOD U	Confirmation No.: Unassigned  Group Art Unit: Unassigned  Examiner: Unassigned  SING OmpT PROTEASE VARIANT							
		tion							
Sir:	INFORMATION DISCLOSU	RE STATEMENT (IDS)							
Under 37 C.F.R. § 1.97(b): Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. To the undersigned's knowledge, this IDS is being filed before the mailing date of a first Office Action on the merits, before the mailing date of a first Office Action on the merits after filing an RCE under § 1.114, or within three months of the application filing date.									
to the attention is being filed mailing date o	on of the Examiner the documents lister after the events recited in § 1.97(b) but	C.F.R. §§ 1.56 and 1.97(c), Applicant brings and on the attached PTO Form 1449. This IDS at, to the undersigned's knowledge, before the allowance, or another action that closes							
	The fee of \$180.00 set forth in § 1.17	7(p) is included herein; or							
	* *	information contained in this IDS was first oreign patent office in a counterpart foreign ths prior to the filing of this IDS.							
brings to the	attention of the Examiner the documer	7 C.F.R. §§ 1.56 and 1.97(d), Applicant at listed on the attached PTO Form 1449. 1.97(c) but before payment of the issue fee.							
	The fee of \$180.00 set forth in § 1.17	7(p) is included herein; and							
	<del></del>	information contained in this IDS was first oreign patent office in a counterpart foreign ths prior to the filing of this IDS.							

## IAP5 Rec'd PCT/PTO 28 MAR 2006

Attorney Docket No.: 47259-5001-00 US

10/573821

Under 37 C.F.R. § 1.97(i): Pursuant to 37 C.F.R. §§ 1.56 and 1.97(i), Applicant brings
to the attention of the Examiner the documents listed on the attached PTO Form 1449. This IDS is being filed after the events recited in § 1.97(d). Applicant requests that the IDS be placed in the file.
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A search report or other listing of documents from a counterpart, related, or other application dated <u>December 28, 2004</u> and having documents cited thereon is attached for the Examiner's consideration. Any of these documents not previously cited, and any additional documents are listed on the PTO Form 1449.

Applicant respectfully requests that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. As for any document listed on the accompanying PTO-1449 that is in a language other than English, relevance can be understood from an enclosed English abstract or at least partial translation or from mention in the specification or in a search report for a corresponding application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that any of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should any of the documents be applied against the claims of the present application.

Except for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this Application, including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required and including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0573. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: March 28, 2006

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		R.A. KRAMER et al., "Identific	ation of	Essential	Acidic Res	idues of (	Outer Me	mbrane Pro	tease C	OmpT			
		Supports a Novel Active Site", F Science B.V.	EBS L	etters, 200	1, pp. 426-4	430, Vol.	505, Put	dished by E	Isevier	•			
			ate Spe	cificity at t	the P1' Site	of Esche	richia co	li OmpT Ur	nder				
	Kazuaki OKUNO et al., "Substrate Specificity at the P1' Site of <i>Escherichia coli</i> OmpT Under Denaturing Conditions", Biosci. Biotechnol. Biochem., 2002, pp. 127-134, Vol. 66, No. 1.												
	Niek DEKKER et al., "Substrate Specificity of the Integral Membrane Protease OmpT Determined by												
		Spatially Addressed Peptide Libraries", Biochemistry, 2001, pp. 1694-1701, Vol. 40, No. 6., Published											
		by American Chemistry Society.  Kazuaki OKUNO et al., "An Analysis of Target Preferences of Escherichia coli Outer-Membrane											
		Endoprotease OmpT for Use in Therapeutic Peptide Production: Efficient Cleavage of Substrates With											
		Basic Amino Acids at the P4 and P6 Positions", Biotechnol. Appl. Biochem., 2002, pp. 77-84, Vol. 36											
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		Kazuaki OKUNO et al., "Utilization of Escherichia coli Outer-Membrane Endoprotease OmpT Variants											
	as Processing Enzymes for Production of Peptides From Designer Fusion Proteins", Applied and Environmental Microbiology, Jan. 2004, pp. 76-86, Vol. 70, No. 1, Published by American Society for												
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